

Formation and development of the regional system of continuous environmental education of a teacher

Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

© Foundation Environmental Protection & Research-FEPR. The relevance of the study is due to the contradictions between man and nature. By now, these contradictions have reached global proportions and are becoming increasingly difficult to resolve. The further development of civilization deepens the contradictions between man and nature. The consumptive attitude to natural resources has led to the formation of global environmental problems. The most serious are: destruction of the ozone layer, pollution of the world's oceans, deforestation of tropical forests, intensification of the greenhouse effect, pollution of fresh water and desertification of fertile lands. The existence of the human civilization itself depends on the solution of these problems. The purpose of the article is to study the process of formation and development of the regional system of continuous environmental education for teachers. The study involved 60 university students, 150 students of general education schools and 10 pre-school teachers. To solve the task and check the initial assumptions, a complex of research methods was used: a comprehensive, systematic, personal, integrative approach to the formation of ecological culture, the study of training educational programs for environmental education of preschool children, students of general education institutions and university students; a sociological survey of schoolchildren and students university. The analysis made it possible to distinguish the main contradiction: between the realistic need to take into account regional determinants in the continuous environmental education of a teacher and the insufficiently developed regional system of continuous environmental education in the teacher's training. The developed model of ecological education and upbringing of preschool children, students of general education institutions and students of the university will have practical significance for determining the theoretical, methodological and curricular foundations for the creation, functioning and development of a regional system of continuous environmental education of a teacher in achieving sustainable development of environmental education.

Keywords

Continuous education, Ecology, Man, Nature, Regional system, Sustainable development, Teacher

References

- [1] Aizman RI, Iashvili MV, Petrov SV, Gerashev AD (2016) Ecological and food security. Moscow: INFRA-M.
- [2] Akishina EM, Sudakova YE, Prokopyev AI, Yakubenko KY, Solovyeva NA, Korzhuev AV (2017) System of cultural experience development of humanities students in modern information media conditions. *Man in India*, 97(14): 115-127.

- [3] Alavi P, Pourzamani H, Ghaneieian M (2017) The application of water jet mix to optimize water consumption at sugar factory of Naghshe Jahan, Isfahan. *Eurasian Journal of Biosciences*, 11(1): 27-31.
- [4] Alekseev SV (1997) *Ecology*. Moscow: Nauka.
- [5] Arbabzadeh M, Etesam I, Mofidi SM (2017) Biomimetic and vernacular building design in connection with environment. *Eurasian Journal of Biosciences*, 11(1): 37-44.
- [6] Arsić Z (2013) Didactical-Methodical assumptions and conditions for successful solution of ecological problems at preschool institutions. *International Journal of Cognitive Research in Science, Engineering and Education Open access*, 1(1): 311-324.
- [7] Aryanpour MM, Almassi Z, Nasrabadi M (2017) Environmental risk assessment of gas condensates transmission pipeline with Kent Muhlbauer method and fuzzy TOPSIS model. (Case study: gas transmission pipeline within Naiband National Park and Hormod Protected Area). *Eurasian Journal of Biosciences*, 11(1): 45-51.
- [8] Baker FS (2018) Shaping pedagogical approaches to learning through play: a pathway to enriching culture and heritage in Abu Dhabi kindergartens. *Journal Early Child Development and Care*, 188(2): 109-125. <https://doi.org/10.1080/03004430.2016.1204833>
- [9] Baker M (2018) Early Childhood Teachers at the Center: A Qualitative Case Study of Professional Development in an Urban District. *Early Childhood Education Journal*, 46(2): 231-240. <https://doi.org/10.1007/s10643-01-0858-6>
- [10] Bestelmeyer SV, Elser MM, Spellman KV, Sparrow EB, Haan-Amato SS, Keener A (2015) Collaboration, interdisciplinary thinking, and communication: New approaches to K-12 ecology education. *Journal Frontiers in Ecology and the Environment*, 13(1): 37-43. <https://doi.org/10.1890/140130>
- [11] Demichev AA, Gracheva OS (2017) *Environmental Law*. Moscow: Prometheus.
- [12] Egorenkov LI (2017) *Ecological framework of the territory: study guide*. Moscow: INFRA-M.
- [13] Friedman VS (2017) *Global environmental crisis*. Moscow: a classic textbook of MSU.
- [14] Gimaliev VG, Prokopev AI, Makarova EV, Abdulkhakova KR, Kozin MN, Fazylzyanova GI (2018) Personality features and values orientations of university students with manipulative behavior. *Espacios*, 39(20):14-23.
- [15] Glazachev SN (1998) *Teacher's Ecological Culture: Research and Development on the Humanitarian Paradigm*. Moscow: Sovremenny pisatel'.
- [16] Godrich SL, Davies CR, Darby J, Devine A (2018) Which ecological determinants influence Australian children's fruit and vegetable consumption? *Journal Health Promotion International*, 33(2): 229-238.
- [17] Goncharova M (2012) Planet Play: Designing a Game for Children to Promote Environmental Awareness. *Online Journal of Communication and Media Technologies*, 2(4): 137-154.
- [18] Grebennikov VV, Marchuk NN, Galushkin AA (2013) Organizational and legal bases of the nationality institute and its place in the system of rights in Russia. *World Applied Sciences Journal*, 23(9): 1217-1220.
- [19] Harding KL, Aguayo VM, Masters WA, Webb P (2018) Education and micronutrient deficiencies: An ecological study exploring interactions between women's schooling and children's micronutrient status. *Journal BMC Public Health*, 18(1): 254-265. <https://doi.org/10.1186/s12889-018-5312-1>
- [20] Kekeeva ZO (2009) *Teacher training in the cultural and educational space of university: theory, methodology, practice*. Volgograd: Peremena.
- [21] Kerimsheeva OA, Iglina NG (2011) *Ethnopedagogy and safety culture. Study guide*. Novosibirsk: Arta.
- [22] Kovats G (2017) Proposal for directions in Romanian ecological education. *International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, International Multidisciplinary Scientific Geoconference, SGEM*, 17(54): 159-166.
- [23] Kuznetsova NV, Soloviev AA, Botasheva LK, Lebedev IA, Sarkisyan KS, Kurdyumov VI, ... Prokopyev AI (2018) Bachelors safety culture formation in the field of environmental protection. *Eurasian Journal of Biosciences*, 12(2): 157-166.
- [24] Le Mao P, Retière C, Le Bec CA, Gerla D (2018) How to manage an anthropized littoral system with a high heritage value? The case of the Mont-Saint-Michel Bay (Article). *Journal Oceanis*, 30(1): 95-114.
- [25] Li Y (2018) Study of the Effect of Environmental Education on Environmental Awareness and Environmental Attitude Based on Environmental Protection Law of the People's Republic of China. *Eurasia Journal of Mathematics, Science and Technology Education*, 14(6): 2277-2285. <https://doi.org/10.29333/ejmste/86214>
- [26] Machnev VY, Grudtsina LY, Pashentsev DA, Zinnatullina AN, Pavlenko EM, Fedorchuk KV, ... Kolomiychenko LV (2018) Socio-psychological aspects of preschoolers' formation of ecological installation for environmental protection. *Eurasian Journal of Biosciences*, 12(2): 175-180.
- [27] Mukhutdinova TZ (2003) *Formation and development of a regional system of continuous environmental education of a specialist*. Kazan: Publishing house of Kazan University.
- [28] Mutavchi EP, Prokopyev AI, Kostyleva GV, Blinov LV, Fedorov VV, Polichka AE (2018) Scientific-methodical resource of student training and vocational motivation development in university. *Espacios*, 39(20): 15-24.
- [29] Nigmatov ZG, Khuziakhmetov AN (1996) *A course of lectures on pedagogy*. Kazan: Tatknigoizdat.

- [30] Platonova RI, Zaitseva NA, Zemlyanskaya EN, Bezborodova MA, Stepanov PA, Mikhina GB (2017) Nonlinear development of university pedagogical system: permanence of didactic tasks. *Man in India*, 97(14): 159-171
- [31] Potapova SV, Danilova IY, Prasolov VI, Makarova EV, Kryukova NI (2018) Mythological foundations of ontology. *XLinguae*, 11(2): 672-685. <https://doi.org/10.18355/XL.2018.11.02.53>
- [32] Rodin AA, Drugov YuS (2017) Environmental analysis for oil spills and oil products. Practical guide. Moscow: Binom.
- [33] Ryazanova NE, Kalinin VM (2015) Environmental monitoring of natural environments. Moscow: INFRA-M.
- [34] Sangadzhiev BV, Marchuk NN, Galushkin AA (2013) Courts of general jurisdiction in Russian federation as an instrument of human rights and freedoms protection. *World Applied Sciences Journal*, 26(5): 688-691.
- [35] Semushina LG (1989) The main results of the research institute of high schools in 1988. Moscow: Mastery.
- [36] Shabanpour A, Mohammadyfar MA, TalePesand S, Rezaei AM (2017) Comparison of the effectiveness of three methods of cognitive-behavioral therapy (individual counseling, group counseling and parent education) on reduction of ADHD syndrome. *Eurasian Journal of Biosciences*, 11(1): 63-71.
- [37] Shelton C (2018) An ecological model for university faculty members' thinking about technology. *Journal of Computing in Higher Education*, 30(2): 279-297. <https://doi.org/10.1007/s12528-018-9168-2>
- [38] Tonković AB (2015) Sociological aspects of sustainable development perspectives in central lika through the prism of human and social capital. *Journal Sociologija i Prostor*, 53(2): 163-180.
- [39] Tuna Y, Ozkocak L (2012) The First Step To Communication With Environmentally Responsible Consumer: Measuring Environmental Consciousness Of Turkish Consumers. *Online Journal of Communication and Media Technologies*, 2(3): 131-147.
- [40] Yachina NP, Valeeva LA, Sirazeeva AF (2016) E-Teaching materials as a means to improve humanities teaching proficiency in the context of education informatization. *International Journal of Environmental and Science Education*, 11(4): 433 - 442.
- [41] Zaitseva NA, Larionova AA, Gornostaeva ZhV, Malinina OYu, Povalayeva VA, Vasenev SL, Skrynnikova IA, Ersozlu A (2017) Elaboration of the methodology for assessing the development of managerial competences in university students taught with the use of case-technologies. *EURASIA Journal of Mathematics, Science and Technology Education*. 13(11): 7339-7351. <https://doi.org/10.12973/ejmste/79609>
- [42] Ziabari SH, Ghafoori M, Moghaddas NH (2017) Liquefaction potential evaluation and risk assessment of existing structures: A case study in Astaneh-ye Ashrafiyeh City, Iran. *Eurasian Journal of Biosciences*, 11(1): 52-62.